ABSTRACT

This invention is a technique of image data processing. Image data is stored in a memory having data words of a predetermined data width. Each data word includes a plural adjacently disposed image pixels of a single scan line. A set of consecutive data words corresponds to a two dimensional tile of the image whereby adjacent data words store image pixels of adjacent scan lines. The image data is transferred to a cache in these tiles. Following image processing on a tile of image data stored in the cache, the tile of image data is transferred back to the memory. The technique repeats for each tile of image data. Separate tiles of image data may be operated on by different data processors simultaneously.